



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
HB20PTB00024

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

R. STAHL Schaltgerate GmbH

地址/Address

Am Bahnhof 30 D-74638 Waldenburg, Germany

产品名称/Product

隔离器及系统集成
Isolators & Integration System
可编程逻辑控制器
Programmable Logic Controller

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》（2018）及其修改通报第4篇第1章
Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its Amendments
- 中国船级社《钢质海船入级规范》（2018）及其修改通报第7篇第1章
Chapter 1, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2018 and its Amendments

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

可编程逻辑控制器/Programmable Logic Controller (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Isolators & Integration System	
型号/Type	ISpac	
系统组成/System Component	见附页 / see additional pages	
电源/Power Source	DC 24V, AC 230V	

证书有效期至/This Certificate is valid until 2024年04月30日/ Apr. 30,2024

发证机构/Issued by 中国船级社汉堡分社
CCS Hamburg Branch

签发日期/Date 2020年07月02日
Jul. 02,2020

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P020-50313476

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP13A02645, NP20PPP01122

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 见附页 / see additional pages
试验报告日期/ Test Report Date :

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:
认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。
After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

本证书由原型式认可证书 (No. HB14T00021_02) 变更并换新。

This certificate is modified and renewed from the previous Type Approval Certificate No.

HB14T00021_02.

本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.

However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社汉堡分社
CCS Hamburg Branch

注：本证书含有附页，共4页

Note: The certificate is attached with additional 4 page(s)

产品明细 / Product Description

ISpac 91** and ISpac System 919* as follow:

Name	Type	Marking of explosive	Ex certificate No.	Ex certificate issued by	Ex Standards
ISpac Isolators					
I.S. Power Supply	9143/10-***-***-0	Ex nA [ib Gb] IIC/IIB T4 Gc or [Ex ib Gb] IIC/IIB [Ex ib Db] IIIC [Ex ib Mb] I	IECEX BVS 12.0009X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
Frequency Transmitter	9146/*0-1*-1*	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I	IECEX BVS 13.0095X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
Vibration Transducer Supply Unit	9147/*0-99-10	Ex nA [ia Ga] IIC T4 Gc and [Ex ia Da] IIIC and [Ex ia Ma] I	IECEX BVS 12.0001X	DEKRA EXAM GmbH	IEC 60079-0 : 2017 IEC 60079-7 : 2017 IEC 60079-11 : 2011
Transmitter Supply Unit	9160/**-**-1*	For Types 916*/**-**-11 and 916*/**-**-13: Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I	IECEX BVS 08.0050X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
Isolating Repeater HART Input	9163/**-**-1*	For Types 916*/**-**-10: Ex nA [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I			
Transmitter Supply Unit with Limit values	9162/13-11-*4	For Types 9162/13-11-64: Ex nA nC IIC T4 Gc For Types 9162/13-11-14: Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 15.0013X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
mA Isolating Repeater	9164/13-20-06	Ex e mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC	IECEX BVS 15.0062X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-7 : 2006 IEC 60079-11 : 2011 IEC 60079-18 : 2014
	9164/13-20-08	Ex ib [ia Ga] IIC T4 Gb [Ex ia Da] IIIC			
Isolating Repeater	9165/**-11-1*	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 10.0011X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006

Name	Type	Marking of explosive	Ex certificate No.	Ex certificate issued by	Ex Standards
Isolation Repeater Loop Powered	9167/**-11-00	Ex nA [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 11.0089X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
	9167/**-11-50	Ex nA IIC T4 Gc			
ISpac Isolators					
Switching Repeater	9170/**-**-**	Type: 9170/**-**-2*, 9170/**-*-2-1*, 9170/**-*-3-1*: [Ex ia Ga] IIC, [Ex ia Da] IIIC Type: 9170/**-*0-1*, 9170/**-*1-1*, 9170/**-*4-1*: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC Type: 9170/*2-12-*3: [Ex ia Ma] I	IECEX BVS 09.0041X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
I.S. Relay Module	9172/**-11-00	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 09.0002X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
Digital Output	9175/*0-1*-1*	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 10.0050X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
Digital Output Loop Powered	9176/*0-1*-00	Ex nA [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 13.0012X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
Resistance Isolator	9180/**-77-11	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 10.0055X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
Temperature Transmitter	9182/*0-5*-1*	Ex nA nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC	IECEX BVS 09.0046X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010 IEC 60079-26 : 2006
	9182/*0-5*-6*	Ex nA nC IIC T4 Gc			
Fieldbus Isolating Repeater	9185/11-**-10	Ex nA [ib Gb] IIC T4 Gc [Ex ib Db] IIIC	IECEX BVS 06.0004X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-15 : 2010
	9185/12-4*-10	Ex nA IIC T4 Gc			

Name	Type	Marking of explosive	Ex certificate No.	Ex certificate issued by	Ex Standards
Fibre Optic Isolating Repeater	9186/12-*1-1*	Ex e mb ib [ia op is Ga] IIC T4 Gb [Ex ia Da] IIIC	IECEX BVS 12.0081X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-11 : 2011 IEC 60079-18 : 2009 IEC 60079-26 : 2006 IEC 60079-28 : 2006 IEC 60079-7 : 2006
Fibre Optic Isolating Repeater	9186/*5-12-11	Ex nA nC [op is T6 Ga] IIC T4 Gc [Ex op is Da] IIIC	IECEX BVS 13.0107X	DEKRA EXAM GmbH	IEC 60079-0 : 2011 IEC 60079-15 : 2010 IEC 60079-28 : 2006
ISpac System					
Termination Module	9191/20-00-50	For Type 9191/20-00-50, 9192/32-10-10, 9194/31-**, 9294/**-** and 9196/**H-***-***: Ex ec IIC T4 Gc	IECEX BVS 10.0042X	DEKRA EXAM GmbH	IEC 60079-0 : 2017 IEC 60079-7 : 2017
HART-Multiplexer	9192/32-10-10				
Supply Module	9193/**-11-1*	For Type 9193/**-11-1* and 9195/**-***-****. Ex ec nC IIC T4 Gc			
pac-Bus	9194/31-** 9294/**-**				
pac-Carrier	9195/**-***-****				
Connection board	9196/**H-***-***				

注/note:

1. I.S. Fieldbus Isolating Repeater must be installed in a RF shielded cabinet.

2、本认可产品的防爆性能参数基于制造厂提交的防爆合格证（签发机构、证书号、防爆标准，见上表），非中国船级社认可。

The Ex-Proof parameters of the approved products originate from Ex- Certificate received from manufacturer (Issuing Body, Ex- Certificate No., Standards for ExProof, please see above table), not approved by CCS.

3、本认可产品应持有有效的防爆合格证，否则本证书将自动失效。

This Type Approval Certification will be invalid if the approved products do not hold valid Ex- Certificate.

产品认可试验报告/ Approval Test Report

No.	Test Report No.	Test report date	Laboratory and address
1	4577/04	2004.05.12	KRIWAN Testzentrum GmbH & Co. KG Teslastr. 2, D-74670 Forchtenberg
2	4632/04	2004.08.13	
3	4633/04	2007.12.13	
4	4634/04	2004.08.13	
5	4651/04	2004.10.01	
6	4909/06	2006.05.12	
7	4919/06	2006.05.16	
8	4931/06	2006.06.28	
9	6175/12	2012.10.19	
10	310-04-0043	2004.05.06	The National Institute of Technology, Laboratory Services Materials Technology, Environmental Test Laboratory Postboks 1019, No-3601 KONGSBERG
11	E61323	2006.06.29	Phoenix testlab Konigswinkel 10, D-32825 Blomberg, Germany
12	Prüfbericht Elektromechanik	2003.02.14	DCT-Labor, Phoenix Contact GmbH & Co KG DCT-LABOR/Walewski
13	11791	2018.03.09	NKL GmbH Birkichstrasse 15, D-74549 Wolpertshausen, Germany